## I Claim:

1. A method for producing ferrotungsten-containing articles, the method comprising:

providing ferrotungsten-containing powder comprising magnetic and non-magnetic particles;

exposing the ferrotungsten-containing powder to a magnetic source to separate the ferrotungsten-containing powder into at least a magnetic fraction and a non-magnetic fraction; and

producing an article from at least a portion of the non-magnetic fraction.

- 2. An article produced according to the method of claim 1.
- 3. The method of claim 1, wherein the method further includes removing at least a portion of particles having a size smaller than a selected particle threshold.
- 4. The method of claim 3, wherein the removing step occurs prior to the exposing step.
- 5. The method of claim 3, wherein the removing step occurs after the exposing step.

- 6. The method of claim 3, wherein the removing step includes utilizing an ultrasonic screening process.
- 7. The method of claim 1, wherein the producing step includes placing a portion of the non-magnetic fraction into a jacket and sealing the jacket without compressing the portion of the non-magnetic fraction to a pressure that exceeds 20 ksi.
  - 8. An article produced according to the method of claim 7.
- 9. The method of claim 1, wherein the producing step includes forming the article via powder metallurgy.
- 10. The method of claim 1, wherein the producing step includes forming an at least partially molten feedstock that includes the portion of the non-magnetic fraction.
- 11. The method of claim 1, wherein the article is a firearm projectile.

- 12. The method of claim 1, wherein the article is firearm ammunition.
  - 13. The method of claim 1, wherein the article is a lead substitute.

14. Firearm ammunition, comprising:a casing adapted to be received into a firearm;

primer and propellant within the casing; and

at least one projectile at least partially received into the casing, wherein the at least one projectile is at least substantially comprised of a non-magnetic fraction of ferrotungsten-containing powder.

- 15. The ammunition of claim 14, wherein the ferrotungstencontaining powder is at least substantially formed from ferrotungsten.
- 16. The ammunition of claim 14, wherein the ferrotungstencontaining powder consists essentially of ferrotungsten.
- 17. The ammunition of claim 14, wherein the projectile includes a jacket.
- 18. The ammunition of claim 14, wherein the non-magnetic fraction is present in the projectile in powder form.
- 19. The ammunition of claim 14, wherein the projectile has a density of at least 9 g/cc.

- 20. The ammunition of claim 14, wherein the projectile has a density of at least 10.5 g/cc.
- 21. The ammunition of claim 14, wherein the projectile has a density of at least 12 g/cc.
- 22. The ammunition of claim 14, wherein the projectile includes a greater concentration of  $Fe_7W_6$  phase and BCC tungsten phase than bulk ferrotungsten-containing powder.

23. A method for forming a jacketed firearm projectile, the method comprising:

providing a jacket defining an internal compartment and having an opening;

adding density-enhanced ferrotungsten-containing powder into the internal compartment;

sealing the jacket to produce a core having a density of at least 10.5 g/cc without compressing the density-enhanced ferrotungsten-containing powder beyond 20 ksi;

- 24. A jacketed firearm projectile produced according to the method of claim 23.
- 25. The method of claim 23, wherein the core has a density of at least 11 g/cc.
- 26. The method of claim 23, wherein the core is at least substantially non-magnetic.
- 27. The method of claim 23, wherein at least a substantial portion of the powder has a particle size greater than 325 mesh and less than 100 mesh.

28. A method for processing ferrotungsten-containing powder, the method comprising:

providing ferrotungsten-containing powder comprising magnetic and non-magnetic particles; and

exposing the ferrotungsten-containing powder to a magnetic source to separate the ferrotungsten-containing powder into at least a magnetic fraction and a non-magnetic fraction.

- 29. The method of claim 28, wherein the method further includes removing at least a portion of particles having a size smaller than a selected particle threshold.
- 30. The method of claim 29, wherein the removing step occurs prior to the exposing step.
- 31. The method of claim 29, wherein the removing step occurs after the exposing step.
- 32. The method of claim 29, wherein the removing step includes utilizing an ultrasonic screening process.

33. A method for producing ferrotungsten-containing powder, the method comprising:

providing ferrotungsten-containing powder comprising particles having sizes that are larger and smaller than a selected particle threshold; and

separating the powder into at least a fine particle fraction and a resultant fraction via an ultrasonic screening process.

producing an article from at least a portion of the resultant fraction.

- 34. Powder produced according to the method of claim 33.
- 35. The method of claim 33, wherein the method further includes separating at least the resultant fraction into at least magnetic and non-magnetic fractions.
- 36. The method of claim 35, wherein the magnetic separation occurs after the size separation.
- 37. The method of claim 35, wherein the method further includes magnetically separating the fine particle fraction into at least a fine magnetic fraction and a fine non-magnetic fraction.

38. The method of claim 37, wherein the method further includes mixing at least a portion of the fine non-magnetic fraction with at least a portion of the resultant fraction.

39. A method for processing ferrotungsten-containing powder, the method comprising:

providing ferrotungsten-containing powder;

at least one of density-enhancing the ferrotungsten-containing powder by removing ferrotungsten-containing powder particles having a density less than 13 g/cc, density-enhancing by removing ferrotungsten-containing powder particles that are drawn away from the powder when exposed to a magnetic source, and enhancing the flowability of the ferrotungsten-containing powder by removing magnetic particles from the ferrotungsten-containing powder.